

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P331705-930

Luminaire Tested: **SA2XXRDIP-C865D330U930-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331705-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C865D330U930-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 330 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3759.1 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

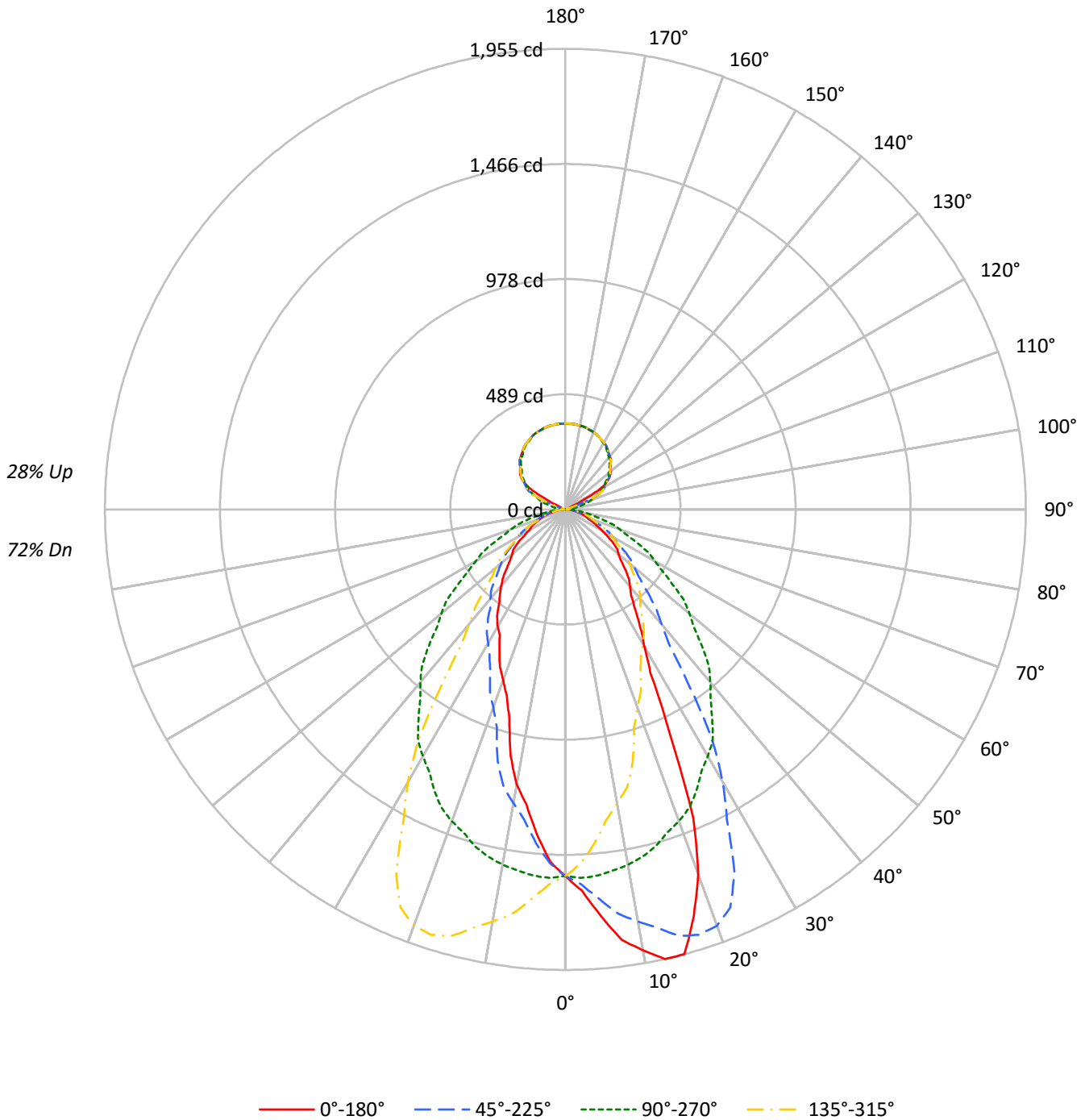
Input Watts (W): 43.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	72
1	104	100	96	93	98	95	92	89	85	83	81	77	75	73	69	68	66	63
2	95	88	83	78	90	84	79	75	76	72	69	69	66	63	62	60	58	54
3	88	79	72	66	83	75	69	64	68	63	59	62	58	55	56	53	51	47
4	81	71	63	57	77	68	61	56	62	56	52	56	52	48	51	48	45	42
5	75	64	56	50	71	61	54	49	56	50	46	51	46	43	47	43	40	37
6	70	58	50	45	66	56	49	43	51	45	41	47	42	38	43	39	36	33
7	65	53	45	40	62	51	44	39	47	41	37	43	38	35	40	36	32	30
8	61	49	41	36	58	47	40	35	43	37	33	40	35	31	37	33	30	28
9	57	45	38	33	54	43	37	32	40	34	30	37	32	29	34	30	27	25
10	53	42	35	30	51	40	34	29	37	32	28	35	30	26	32	28	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	25137	25137	25137	25137
5°	28075	25293	22428	25293
10°	31147	25117	19441	25117
15°	32679	24749	15318	24749
20°	28331	24204	13254	24204
25°	18579	23457	11834	23457
30°	12506	22551	10711	22551
35°	10129	21409	9660	21409
40°	9008	20168	8939	20168
45°	8152	18712	7978	18712
50°	7420	17269	7390	17269
55°	6975	15671	6883	15671
60°	5835	14202	5767	14202
65°	4917	12894	5578	12894
70°	4546	11514	5264	11514
75°	4255	10025	4860	10025
80°	3924	8247	4333	8247
85°	3612	6502	3798	6502



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.6	3.9
10°-20°	411.2	10.9
20°-30°	529.9	14.1
30°-40°	503.6	13.4
40°-50°	431.4	11.5
50°-60°	328.5	8.7
60°-70°	207.7	5.5
70°-80°	103.7	2.8
80°-90°	27.9	0.7
90°-100°	12.1	0.3
100°-110°	44.6	1.2
110°-120°	119.1	3.2
120°-130°	196.6	5.2
130°-140°	209.1	5.6
140°-150°	194.4	5.2
150°-160°	156.3	4.2
160°-170°	100.7	2.7
170°-180°	34.7	0.9
0°-30°	1088.7	29.0
0°-40°	1592.3	42.4
0°-60°	2352.3	62.6
0°-90°	2691.5	71.6
90°-120°	175.8	4.7
90°-150°	776.0	20.6
90°-180°	1068.0	28.4
0°-180°	3759.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1557	1557	1557	1557	1557	
5°	1732	1561	1384	1561	1732	171
15°	1955	1481	916	1481	1955	527
25°	1043	1317	664	1317	1043	495
35°	514	1086	490	1086	514	329
45°	357	820	349	820	357	276
55°	248	557	244	557	248	217
65°	129	338	146	338	129	131
75°	68	161	78	161	68	72
85°	20	35	20	35	20	21
90°	7	0	7	0	7	4
95°	11	17	11	17	11	11
105°	20	80	20	80	20	21
115°	22	152	22	152	22	54
125°	225	214	225	214	225	195
135°	274	265	274	265	274	211
145°	312	308	312	308	312	195
155°	339	339	339	339	339	156
165°	356	357	356	357	356	101
175°	363	365	363	365	363	35
180°	364	364	364	364	364	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1620.1	1621.4	1622.7	1619.6	1619.6	1617.1	1611.4	1607.1	1595.0	1593.3	1593.3
5°	1732.2	1731.0	1733.2	1726.2	1716.4	1714.3	1704.1	1690.5	1676.4	1660.8	1657.5
7.5°	1843.6	1841.9	1837.6	1836.5	1829.0	1812.7	1796.1	1778.5	1755.1	1732.3	1720.8
10°	1899.8	1917.7	1906.9	1887.9	1891.7	1866.3	1852.8	1829.5	1810.0	1776.0	1768.4
12.5°	1955.3	1962.3	1958.8	1948.1	1943.3	1925.6	1907.3	1887.1	1851.1	1820.6	1793.9
15°	1955.0	1965.3	1968.0	1964.8	1967.5	1966.4	1956.6	1939.8	1908.5	1874.9	1845.8
17.5°	1810.7	1817.9	1835.6	1847.5	1862.7	1894.8	1910.6	1916.7	1912.0	1892.9	1872.3
20°	1648.9	1637.0	1686.7	1712.1	1733.7	1787.9	1834.4	1852.3	1880.9	1880.4	1874.9
22.5°	1419.4	1422.3	1469.5	1499.7	1562.8	1616.9	1670.0	1737.2	1792.6	1829.3	1850.7
25°	1042.9	1063.6	1110.6	1151.7	1222.1	1322.7	1414.1	1520.1	1620.2	1699.2	1774.3
27.5°	783.3	784.8	822.1	860.1	901.9	984.3	1099.4	1226.0	1368.7	1486.5	1621.9
30°	670.8	667.6	683.2	706.5	742.2	806.0	892.6	1017.0	1159.3	1336.7	1494.7
32.5°	591.2	591.3	603.2	620.4	650.0	693.1	752.4	853.5	987.9	1162.3	1347.5
35°	513.9	513.4	522.0	534.4	546.9	574.5	615.1	668.1	760.6	923.4	1112.7
37.5°	458.5	460.9	465.1	472.9	486.7	502.0	526.4	562.0	627.9	724.1	883.3
40°	427.4	428.4	434.4	440.9	449.0	460.9	480.9	509.6	557.7	634.5	750.8
42.5°	398.8	399.9	404.1	410.2	416.5	428.4	445.0	469.8	508.8	568.8	664.7
45°	357.0	357.0	360.9	363.5	370.6	381.4	394.9	415.5	442.5	486.9	550.7
47.5°	317.9	318.0	320.5	325.1	329.5	338.0	351.3	368.1	387.8	422.1	476.6
50°	295.4	295.9	297.5	301.3	304.0	311.6	321.9	336.5	357.0	383.5	429.0
52.5°	277.2	276.9	278.9	280.5	282.4	287.8	295.5	308.3	326.8	349.8	387.4
55°	247.8	245.6	248.8	251.5	253.2	255.4	259.7	267.7	283.5	303.0	331.1
57.5°	211.0	210.1	212.4	214.8	220.0	225.8	229.5	234.6	242.8	256.7	284.6
60°	180.7	180.7	185.6	187.2	193.1	200.7	208.3	212.6	220.7	229.9	250.5
62.5°	153.8	154.3	156.5	158.2	161.5	170.8	181.4	190.9	198.6	207.4	221.0
65°	128.7	129.8	129.8	130.9	133.1	135.3	139.6	147.2	160.7	173.1	183.4
67.5°	109.3	109.6	109.9	111.0	111.5	113.9	115.7	119.0	122.1	134.0	146.7
70°	96.3	97.9	97.3	98.5	99.0	100.0	102.2	103.9	108.8	111.5	119.0
72.5°	84.1	85.4	85.3	85.9	87.3	87.6	89.3	90.9	94.0	96.3	100.4
75°	68.2	67.6	68.2	69.2	69.8	70.4	70.4	72.5	74.1	76.3	79.0
77.5°	52.6	53.2	53.0	53.2	53.2	54.2	54.1	55.0	56.7	57.8	59.1
80°	42.2	42.7	42.2	42.7	43.3	43.8	43.3	43.8	45.4	46.6	46.6
82.5°	32.7	32.8	33.1	33.2	33.3	33.4	34.2	34.3	35.5	35.3	35.7
85°	19.5	18.9	18.9	18.9	19.5	20.0	19.5	19.5	20.0	20.0	20.0
87.5°	8.3	8.7	8.7	8.7	8.7	8.6	8.6	9.0	8.5	8.8	8.3
90°	7.1	7.0	6.8	6.8	6.7	6.4	6.1	5.9	5.5	5.3	4.8
92.5°	7.1	7.0	7.0	6.9	6.8	6.7	6.6	6.4	6.3	6.1	5.9
95°	11.3	11.4	11.4	11.5	11.6	11.4	11.2	10.8	10.6	10.3	9.9
97.5°	15.2	15.1	15.0	14.9	14.8	14.7	14.4	14.3	14.0	13.8	12.8
100°	17.7	17.5	17.4	17.3	17.2	16.9	16.5	16.0	15.5	15.0	14.0
102.5°	18.9	18.8	18.6	18.4	18.3	17.9	17.3	16.6	16.1	15.4	23.8
105°	20.1	19.8	19.6	19.3	19.1	18.7	18.0	17.4	16.7	16.1	32.0
107.5°	20.6	20.4	20.1	19.9	19.6	19.9	20.5	21.2	21.9	22.5	41.7
110°	20.8	20.6	20.4	20.1	19.9	22.7	28.5	34.4	40.3	46.1	63.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	21.0	20.9	20.6	20.5	20.3	30.9	52.3	73.6	95.0	116.3	120.5
115°	21.6	25.8	30.1	34.2	38.5	54.1	81.3	108.4	135.5	162.7	161.2
117.5°	88.3	102.2	116.0	129.9	143.7	153.9	160.5	167.1	173.6	180.2	179.1
120°	160.8	168.7	176.6	184.5	192.4	196.0	195.3	194.6	194.0	193.2	192.2
122.5°	200.6	202.2	203.7	205.3	206.8	207.3	206.9	206.5	206.1	205.7	204.6
125°	225.3	225.2	225.0	224.9	224.7	224.4	224.0	223.6	223.1	222.7	221.6
127.5°	241.0	240.9	240.9	240.9	240.8	240.5	239.9	239.4	238.7	238.1	237.3
130°	250.7	250.8	250.8	250.9	250.9	250.6	250.0	249.3	248.7	248.1	247.4
132.5°	260.2	260.2	260.3	260.3	260.4	260.2	259.6	259.1	258.5	258.0	257.3
135°	273.9	274.0	274.1	274.3	274.3	274.1	273.5	273.0	272.4	271.8	271.3
137.5°	286.4	286.6	286.8	287.0	287.1	287.0	286.4	285.8	285.3	284.7	284.1
140°	294.2	294.5	294.8	295.1	295.4	295.2	294.7	294.2	293.7	293.1	292.5
142.5°	301.7	302.1	302.4	302.6	303.0	302.9	302.4	301.9	301.4	300.9	300.2
145°	312.3	312.7	313.0	313.2	313.6	313.5	313.1	312.7	312.3	311.9	310.9
147.5°	321.7	322.0	322.2	322.5	322.7	322.7	322.4	322.0	321.7	321.5	320.5
150°	327.4	327.7	328.0	328.3	328.6	328.6	328.2	327.8	327.5	327.2	326.2
152.5°	332.2	332.6	333.0	333.4	333.8	333.8	333.5	333.1	332.7	332.4	331.5
155°	339.0	339.5	340.0	340.4	340.9	341.0	340.6	340.2	339.9	339.5	338.8
157.5°	345.2	345.6	346.1	346.5	347.0	347.0	346.7	346.3	345.8	345.4	345.0
160°	348.8	349.2	349.6	350.0	350.4	350.4	350.1	349.8	349.4	349.0	348.7
162.5°	351.7	352.2	352.7	353.2	353.8	353.8	353.4	352.9	352.6	352.2	351.9
165°	356.1	356.5	356.9	357.3	357.8	357.8	357.3	356.9	356.5	356.1	356.0
167.5°	358.9	359.5	360.0	360.5	361.0	361.1	360.7	360.3	359.9	359.5	359.3
170°	360.6	361.2	361.7	362.2	362.7	362.8	362.4	362.0	361.6	361.2	361.0
172.5°	361.9	362.4	363.0	363.5	364.0	364.0	363.6	363.2	362.8	362.4	362.3
175°	363.0	363.5	364.2	364.8	365.3	365.4	365.0	364.6	364.2	363.8	363.7
177.5°	363.7	364.1	364.5	364.9	365.3	365.4	365.1	364.8	364.4	364.1	364.0
180°	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1594.1	1590.6	1587.6	1579.8	1575.9	1567.2	1565.9	1565.5	1554.3	1543.4	1540.4
5°	1648.9	1640.2	1627.2	1612.1	1596.4	1580.1	1569.3	1560.6	1539.0	1518.5	1506.6
7.5°	1704.1	1685.4	1663.0	1634.3	1610.5	1583.6	1563.7	1545.8	1515.2	1485.7	1465.9
10°	1745.1	1714.8	1685.1	1645.6	1614.8	1584.5	1556.3	1532.0	1497.4	1458.4	1430.9
12.5°	1770.7	1737.3	1696.3	1657.7	1617.8	1579.2	1541.6	1510.3	1469.7	1429.5	1396.6
15°	1805.2	1769.4	1719.7	1664.5	1613.2	1562.8	1519.6	1480.6	1427.6	1379.4	1339.4
17.5°	1833.4	1784.3	1730.9	1667.0	1607.5	1543.6	1487.8	1438.1	1379.1	1321.0	1273.8
20°	1842.5	1793.8	1732.2	1668.3	1598.0	1522.8	1462.7	1408.7	1345.3	1282.1	1228.0
22.5°	1836.9	1799.0	1730.4	1654.0	1582.0	1503.3	1435.5	1372.7	1302.5	1238.0	1175.2
25°	1798.7	1785.7	1720.8	1637.4	1555.3	1463.9	1385.4	1316.7	1236.6	1167.4	1099.2
27.5°	1709.7	1737.6	1697.5	1608.7	1517.3	1419.3	1331.1	1252.9	1169.8	1091.8	1023.9
30°	1624.0	1688.3	1671.0	1588.8	1486.5	1390.2	1291.3	1209.6	1120.9	1040.8	973.7
32.5°	1506.7	1613.0	1629.9	1561.1	1455.4	1349.6	1245.9	1164.6	1072.0	987.6	922.2
35°	1320.0	1479.0	1552.0	1508.2	1402.2	1288.0	1180.9	1086.2	993.2	909.9	845.0
37.5°	1097.1	1313.8	1435.5	1438.6	1341.2	1222.5	1106.0	1011.9	916.7	834.9	764.7
40°	952.6	1187.4	1345.9	1381.0	1298.9	1170.6	1052.7	956.9	863.9	783.8	703.3
42.5°	822.8	1056.7	1251.6	1312.7	1247.3	1120.0	1001.7	901.6	811.1	735.4	653.1
45°	665.4	869.8	1084.6	1193.9	1157.6	1039.8	914.8	819.5	734.6	669.2	590.2
47.5°	561.3	705.4	913.2	1061.0	1060.4	952.8	829.8	738.7	659.8	598.5	534.6
50°	502.0	627.5	803.3	971.0	985.0	894.7	777.9	687.5	614.0	549.6	498.2
52.5°	448.7	552.2	710.3	871.1	911.1	832.8	719.5	636.1	564.7	505.5	461.5
55°	379.2	459.3	579.4	729.8	790.4	735.2	634.5	556.7	498.8	449.0	411.2
57.5°	320.8	380.8	477.2	598.3	668.9	634.1	551.1	487.9	438.3	393.3	363.4
60°	284.0	333.2	414.9	516.1	593.9	569.6	498.8	439.8	397.6	358.7	330.5
62.5°	249.4	291.7	361.7	443.8	515.2	505.2	447.3	397.8	360.9	325.3	301.5
65°	200.7	231.5	286.2	350.6	407.9	412.8	371.1	337.5	304.6	276.5	255.4
67.5°	159.8	179.9	218.4	272.6	315.6	330.9	305.5	279.9	253.7	232.0	213.7
70°	134.7	150.9	179.0	222.9	262.4	278.6	264.0	243.9	221.3	203.4	187.7
72.5°	109.2	125.0	145.7	177.9	211.7	229.3	224.2	209.8	191.4	176.6	161.8
75°	82.3	87.1	101.2	122.8	149.3	164.4	168.3	160.7	146.0	134.7	126.0
77.5°	60.8	63.8	70.4	81.8	99.1	112.6	118.1	117.2	107.2	100.6	92.5
80°	48.7	50.3	53.6	58.5	71.4	85.0	88.7	88.7	81.7	79.0	70.8
82.5°	37.0	38.2	40.1	42.8	48.9	60.7	64.9	65.8	61.3	57.8	51.4
85°	21.1	20.5	21.6	23.2	24.4	27.6	34.1	35.1	34.1	29.8	28.1
87.5°	8.2	8.6	8.5	7.9	8.2	8.6	10.6	12.6	11.0	9.9	9.1
90°	4.3	3.8	3.4	2.9	2.2	1.5	0.9	0.2	0.9	1.5	2.2
92.5°	5.6	5.4	5.2	5.1	5.1	5.2	5.3	5.3	5.3	5.2	5.1
95°	9.5	9.0	8.6	9.4	11.3	13.3	15.2	17.1	15.2	13.3	11.3
97.5°	11.8	10.9	9.9	12.2	17.7	23.1	28.5	34.0	28.5	23.1	17.7
100°	13.0	12.1	11.0	14.6	22.6	30.6	38.6	46.6	38.6	30.6	22.6
102.5°	32.1	40.4	48.8	53.8	55.5	57.2	58.9	60.6	58.9	57.2	55.5
105°	48.1	64.1	80.1	87.2	85.4	83.6	81.9	80.1	81.9	83.6	85.4
107.5°	60.9	80.1	99.2	108.1	106.7	105.3	103.9	102.4	103.9	105.3	106.7
110°	80.0	96.9	113.8	121.7	120.5	119.3	118.0	116.8	118.0	119.3	120.5



TEST NUMBER: P331705-930

CATALOG NUMBER: SA2XXRDIP-C865D330U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	124.7	128.9	133.1	134.6	133.5	132.5	131.3	130.3	131.3	132.5	133.5
115°	159.7	158.2	156.8	155.6	154.6	153.6	152.5	151.6	152.5	153.6	154.6
117.5°	178.1	177.2	176.1	175.0	174.0	172.8	171.7	170.6	171.7	172.8	174.0
120°	191.1	190.0	189.0	188.0	187.2	186.3	185.4	184.5	185.4	186.3	187.2
122.5°	203.3	202.2	201.1	200.1	199.1	198.2	197.3	196.3	197.3	198.2	199.1
125°	220.5	219.4	218.3	217.4	216.6	215.8	215.1	214.3	215.1	215.8	216.6
127.5°	236.5	235.6	234.8	234.0	233.2	232.3	231.5	230.6	231.5	232.3	233.2
130°	246.8	246.1	245.5	244.7	243.8	242.8	241.9	240.9	241.9	242.8	243.8
132.5°	256.7	256.0	255.4	254.7	253.9	253.1	252.3	251.5	252.3	253.1	253.9
135°	270.8	270.2	269.7	269.0	268.0	267.1	266.1	265.2	266.1	267.1	268.0
137.5°	283.5	282.9	282.3	281.7	281.0	280.4	279.7	279.1	279.7	280.4	281.0
140°	291.9	291.2	290.6	290.0	289.5	289.0	288.6	288.1	288.6	289.0	289.5
142.5°	299.5	298.7	298.0	297.4	297.0	296.5	296.1	295.7	296.1	296.5	297.0
145°	309.9	308.8	307.9	307.4	307.4	307.5	307.6	307.6	307.6	307.5	307.4
147.5°	319.5	318.5	317.5	317.2	317.3	317.6	317.8	318.0	317.8	317.6	317.3
150°	325.3	324.3	323.4	323.1	323.5	323.9	324.3	324.7	324.3	323.9	323.5
152.5°	330.6	329.7	328.8	328.6	329.1	329.5	330.0	330.4	330.0	329.5	329.1
155°	338.1	337.5	336.7	336.6	337.1	337.7	338.2	338.8	338.2	337.7	337.1
157.5°	344.5	344.0	343.5	343.4	343.9	344.3	344.8	345.2	344.8	344.3	343.9
160°	348.3	348.0	347.6	347.6	348.0	348.3	348.7	349.0	348.7	348.3	348.0
162.5°	351.6	351.2	351.0	351.0	351.3	351.7	352.0	352.4	352.0	351.7	351.3
165°	355.8	355.6	355.5	355.6	355.9	356.2	356.6	356.9	356.6	356.2	355.9
167.5°	359.1	359.0	358.8	358.9	359.2	359.6	360.0	360.3	360.0	359.6	359.2
170°	360.9	360.8	360.7	360.8	361.2	361.5	361.8	362.2	361.8	361.5	361.2
172.5°	362.2	362.1	361.9	362.1	362.4	362.7	363.1	363.5	363.1	362.7	362.4
175°	363.5	363.5	363.3	363.5	363.9	364.3	364.7	365.1	364.7	364.3	363.9
177.5°	364.0	363.9	363.9	364.0	364.4	364.7	365.0	365.3	365.0	364.7	364.4
180°	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3



TEST NUMBER: P331705-930

CATALOG NUMBER: SA2XXRDIP-C865D330U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1534.8	1531.8	1526.2	1517.5	1512.3	1503.2	1497.1	1500.6	1501.5	1500.6	1499.7
5°	1493.5	1482.2	1466.6	1451.4	1437.3	1422.2	1413.5	1409.7	1402.2	1397.8	1395.7
7.5°	1443.7	1424.2	1401.9	1375.6	1353.2	1329.7	1317.7	1311.7	1296.2	1287.8	1280.4
10°	1406.5	1375.7	1353.5	1318.8	1297.8	1266.9	1245.9	1246.3	1225.2	1213.3	1204.7
12.5°	1365.4	1331.5	1294.6	1263.5	1234.1	1209.3	1184.0	1173.6	1151.3	1139.8	1116.4
15°	1297.2	1257.8	1218.8	1176.6	1146.8	1108.4	1071.6	1026.7	990.5	959.1	950.5
17.5°	1222.8	1173.9	1134.8	1085.2	1034.3	969.7	927.1	901.0	879.1	862.6	850.3
20°	1171.7	1121.9	1080.3	1005.7	936.9	893.2	861.8	841.7	819.0	801.2	791.4
22.5°	1118.0	1066.1	1009.3	926.0	872.5	837.3	809.3	786.4	770.9	757.0	748.1
25°	1041.9	985.0	891.5	834.1	790.8	754.1	734.6	720.6	704.3	685.4	676.7
27.5°	961.4	871.1	803.9	761.2	719.9	696.0	678.5	657.5	642.9	634.5	625.4
30°	901.2	810.9	758.4	711.9	682.7	656.2	635.6	623.7	609.7	595.1	589.1
32.5°	834.1	762.0	711.7	672.9	643.3	620.7	604.5	585.2	575.0	566.1	553.6
35°	750.8	696.2	650.2	618.9	590.8	572.3	553.4	542.0	523.7	516.1	511.2
37.5°	680.3	632.9	598.6	565.5	543.2	522.9	511.3	493.3	485.3	474.7	464.5
40°	640.5	593.9	561.0	533.9	509.1	493.9	479.3	464.7	452.8	447.9	435.5
42.5°	599.8	562.0	529.0	499.3	482.7	466.6	448.2	437.4	425.1	417.2	409.5
45°	543.6	510.1	482.0	457.6	439.3	422.5	410.6	392.7	385.7	370.0	363.5
47.5°	494.3	463.2	436.3	413.2	395.3	384.3	366.9	352.9	341.7	332.1	323.7
50°	459.3	433.3	407.3	386.8	370.6	354.9	337.0	330.0	312.7	307.8	303.0
52.5°	427.2	402.6	378.8	358.7	342.4	327.2	311.4	302.3	290.6	285.8	282.2
55°	382.5	358.7	335.9	318.0	301.8	286.2	276.5	265.1	259.7	255.8	251.5
57.5°	337.5	316.0	298.6	280.5	264.2	251.8	240.5	233.7	228.0	223.1	217.9
60°	308.9	288.3	272.6	255.8	239.1	228.9	220.1	212.1	205.5	198.0	195.8
62.5°	278.6	260.7	246.2	229.9	215.3	205.9	197.6	190.0	182.2	171.1	168.1
65°	236.9	222.9	207.7	194.2	181.2	172.0	160.1	151.5	148.2	147.2	146.6
67.5°	199.3	186.0	173.0	159.1	147.3	138.8	132.7	131.4	129.1	128.5	127.0
70°	174.1	161.8	148.8	135.7	124.4	122.8	120.7	118.5	115.8	114.7	113.6
72.5°	151.6	138.8	125.8	115.4	110.6	108.5	106.3	104.2	102.3	101.3	100.6
75°	116.3	104.4	95.7	92.0	89.3	87.6	84.4	82.8	81.7	80.1	79.5
77.5°	83.7	77.0	73.1	70.7	67.8	66.1	64.2	62.6	61.5	61.1	60.3
80°	63.8	60.6	57.9	54.6	53.6	51.4	50.9	49.2	49.7	48.2	48.2
82.5°	49.6	45.4	43.1	41.7	40.6	38.8	38.3	37.5	37.7	36.4	36.4
85°	25.4	24.4	23.2	22.2	22.2	20.5	21.1	20.5	20.5	19.5	18.9
87.5°	8.8	8.5	7.7	7.8	7.9	7.6	7.6	7.3	7.3	7.3	6.9
90°	2.9	3.4	3.8	4.3	4.8	5.3	5.5	5.9	6.1	6.4	6.7
92.5°	5.1	5.2	5.4	5.6	5.9	6.1	6.3	6.4	6.6	6.7	6.8
95°	9.4	8.6	9.0	9.5	9.9	10.3	10.6	10.8	11.2	11.4	11.6
97.5°	12.2	9.9	10.9	11.8	12.8	13.8	14.0	14.3	14.4	14.7	14.8
100°	14.6	11.0	12.1	13.0	14.0	15.0	15.5	16.0	16.5	16.9	17.2
102.5°	53.8	48.8	40.4	32.1	23.8	15.4	16.1	16.6	17.3	17.9	18.3
105°	87.2	80.1	64.1	48.1	32.0	16.1	16.7	17.4	18.0	18.7	19.1
107.5°	108.1	99.2	80.1	60.9	41.7	22.5	21.9	21.2	20.5	19.9	19.6
110°	121.7	113.8	96.9	80.0	63.0	46.1	40.3	34.4	28.5	22.7	19.9



TEST NUMBER: P331705-930

CATALOG NUMBER: SA2XXRDIP-C865D330U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	134.6	133.1	128.9	124.7	120.5	116.3	95.0	73.6	52.3	30.9	20.3
115°	155.6	156.8	158.2	159.7	161.2	162.7	135.5	108.4	81.3	54.1	38.5
117.5°	175.0	176.1	177.2	178.1	179.1	180.2	173.6	167.1	160.5	153.9	143.7
120°	188.0	189.0	190.0	191.1	192.2	193.2	194.0	194.6	195.3	196.0	192.4
122.5°	200.1	201.1	202.2	203.3	204.6	205.7	206.1	206.5	206.9	207.3	206.8
125°	217.4	218.3	219.4	220.5	221.6	222.7	223.1	223.6	224.0	224.4	224.7
127.5°	234.0	234.8	235.6	236.5	237.3	238.1	238.7	239.4	239.9	240.5	240.8
130°	244.7	245.5	246.1	246.8	247.4	248.1	248.7	249.3	250.0	250.6	250.9
132.5°	254.7	255.4	256.0	256.7	257.3	258.0	258.5	259.1	259.6	260.2	260.4
135°	269.0	269.7	270.2	270.8	271.3	271.8	272.4	273.0	273.5	274.1	274.3
137.5°	281.7	282.3	282.9	283.5	284.1	284.7	285.3	285.8	286.4	287.0	287.1
140°	290.0	290.6	291.2	291.9	292.5	293.1	293.7	294.2	294.7	295.2	295.4
142.5°	297.4	298.0	298.7	299.5	300.2	300.9	301.4	301.9	302.4	302.9	303.0
145°	307.4	307.9	308.8	309.9	310.9	311.9	312.3	312.7	313.1	313.5	313.6
147.5°	317.2	317.5	318.5	319.5	320.5	321.5	321.7	322.0	322.4	322.7	322.7
150°	323.1	323.4	324.3	325.3	326.2	327.2	327.5	327.8	328.2	328.6	328.6
152.5°	328.6	328.8	329.7	330.6	331.5	332.4	332.7	333.1	333.5	333.8	333.8
155°	336.6	336.7	337.5	338.1	338.8	339.5	339.9	340.2	340.6	341.0	340.9
157.5°	343.4	343.5	344.0	344.5	345.0	345.4	345.8	346.3	346.7	347.0	347.0
160°	347.6	347.6	348.0	348.3	348.7	349.0	349.4	349.8	350.1	350.4	350.4
162.5°	351.0	351.0	351.2	351.6	351.9	352.2	352.6	352.9	353.4	353.8	353.8
165°	355.6	355.5	355.6	355.8	356.0	356.1	356.5	356.9	357.3	357.8	357.8
167.5°	358.9	358.8	359.0	359.1	359.3	359.5	359.9	360.3	360.7	361.1	361.0
170°	360.8	360.7	360.8	360.9	361.0	361.2	361.6	362.0	362.4	362.8	362.7
172.5°	362.1	361.9	362.1	362.2	362.3	362.4	362.8	363.2	363.6	364.0	364.0
175°	363.5	363.3	363.5	363.5	363.7	363.8	364.2	364.6	365.0	365.4	365.3
177.5°	364.0	363.9	363.9	364.0	364.0	364.1	364.4	364.8	365.1	365.4	365.3
180°	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3



TEST NUMBER: P331705-930
 CATALOG NUMBER: SA2XXRDIP-C865D330U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1495.0	1495.8	1494.5	1495.4	1494.5	1495.8	1495.0	1499.7	1500.6	1501.5	1500.6
5°	1392.9	1386.5	1385.4	1383.8	1385.4	1386.5	1392.9	1395.7	1397.8	1402.2	1409.7
7.5°	1271.1	1270.2	1267.5	1263.7	1267.5	1270.2	1271.1	1280.4	1287.8	1296.2	1311.7
10°	1192.8	1190.1	1189.6	1185.8	1189.6	1190.1	1192.8	1204.7	1213.3	1225.2	1246.3
12.5°	1101.1	1083.6	1081.8	1072.4	1081.8	1083.6	1101.1	1116.4	1139.8	1151.3	1173.6
15°	937.5	934.3	923.4	916.4	923.4	934.3	937.5	950.5	959.1	990.5	1026.7
17.5°	844.0	833.4	830.1	828.5	830.1	833.4	844.0	850.3	862.6	879.1	901.0
20°	783.8	774.1	772.5	771.4	772.5	774.1	783.8	791.4	801.2	819.0	841.7
22.5°	742.3	732.1	727.9	724.6	727.9	732.1	742.3	748.1	757.0	770.9	786.4
25°	671.3	667.6	665.4	664.3	665.4	667.6	671.3	676.7	685.4	704.3	720.6
27.5°	615.8	607.5	605.8	603.1	605.8	607.5	615.8	625.4	634.5	642.9	657.5
30°	584.2	581.6	577.7	574.5	577.7	581.6	584.2	589.1	595.1	609.7	623.7
32.5°	547.0	544.8	541.4	539.9	541.4	544.8	547.0	553.6	566.1	575.0	585.2
35°	505.8	498.2	495.0	490.1	495.0	498.2	505.8	511.2	516.1	523.7	542.0
37.5°	462.2	458.2	453.6	455.3	453.6	458.2	462.2	464.5	474.7	485.3	493.3
40°	428.4	425.7	424.7	424.1	424.7	425.7	428.4	435.5	447.9	452.8	464.7
42.5°	401.6	394.1	391.3	391.2	391.3	394.1	401.6	409.5	417.2	425.1	437.4
45°	360.9	353.8	348.9	349.4	348.9	353.8	360.9	363.5	370.0	385.7	392.7
47.5°	319.0	318.9	315.8	316.8	315.8	318.9	319.0	323.7	332.1	341.7	352.9
50°	299.1	295.9	293.8	294.2	293.8	295.9	299.1	303.0	307.8	312.7	330.0
52.5°	280.1	277.3	275.6	277.9	275.6	277.3	280.1	282.2	285.8	290.6	302.3
55°	248.8	245.6	245.1	244.5	245.1	245.6	248.8	251.5	255.8	259.7	265.1
57.5°	213.9	211.7	208.5	207.1	208.5	211.7	213.9	217.9	223.1	228.0	233.7
60°	188.8	184.5	179.0	178.6	179.0	184.5	188.8	195.8	198.0	205.5	212.1
62.5°	165.8	165.0	163.9	163.8	163.9	165.0	165.8	168.1	171.1	182.2	190.0
65°	145.5	145.0	145.5	146.0	145.5	145.0	145.5	146.6	147.2	148.2	151.5
67.5°	126.8	125.8	124.8	125.3	124.8	125.8	126.8	127.0	128.5	129.1	131.4
70°	112.5	111.9	111.5	111.5	111.5	111.9	112.5	113.6	114.7	115.8	118.5
72.5°	98.7	98.6	98.0	97.6	98.0	98.6	98.7	100.6	101.3	102.3	104.2
75°	79.0	77.9	77.9	77.9	77.9	77.9	79.0	79.5	80.1	81.7	82.8
77.5°	60.2	59.6	59.1	58.6	59.1	59.6	60.2	60.3	61.1	61.5	62.6
80°	47.6	47.0	46.6	46.6	46.6	47.0	47.6	48.2	48.2	49.7	49.2
82.5°	36.4	35.8	35.7	35.3	35.7	35.8	36.4	36.4	36.4	37.7	37.5
85°	19.5	20.0	19.5	20.5	19.5	20.0	19.5	18.9	19.5	20.5	20.5
87.5°	7.0	6.6	7.0	6.6	7.0	6.6	7.0	6.9	7.3	7.3	7.3
90°	6.8	6.8	7.0	7.1	7.0	6.8	6.8	6.7	6.4	6.1	5.9
92.5°	6.9	7.0	7.0	7.1	7.0	7.0	6.9	6.8	6.7	6.6	6.4
95°	11.5	11.4	11.4	11.3	11.4	11.4	11.5	11.6	11.4	11.2	10.8
97.5°	14.9	15.0	15.1	15.2	15.1	15.0	14.9	14.8	14.7	14.4	14.3
100°	17.3	17.4	17.5	17.7	17.5	17.4	17.3	17.2	16.9	16.5	16.0
102.5°	18.4	18.6	18.8	18.9	18.8	18.6	18.4	18.3	17.9	17.3	16.6
105°	19.3	19.6	19.8	20.1	19.8	19.6	19.3	19.1	18.7	18.0	17.4
107.5°	19.9	20.1	20.4	20.6	20.4	20.1	19.9	19.6	19.9	20.5	21.2
110°	20.1	20.4	20.6	20.8	20.6	20.4	20.1	19.9	22.7	28.5	34.4



TEST NUMBER: P331705-930

CATALOG NUMBER: SA2XXRDIP-C865D330U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	20.5	20.6	20.9	21.0	20.9	20.6	20.5	20.3	30.9	52.3	73.6
115°	34.2	30.1	25.8	21.6	25.8	30.1	34.2	38.5	54.1	81.3	108.4
117.5°	129.9	116.0	102.2	88.3	102.2	116.0	129.9	143.7	153.9	160.5	167.1
120°	184.5	176.6	168.7	160.8	168.7	176.6	184.5	192.4	196.0	195.3	194.6
122.5°	205.3	203.7	202.2	200.6	202.2	203.7	205.3	206.8	207.3	206.9	206.5
125°	224.9	225.0	225.2	225.3	225.2	225.0	224.9	224.7	224.4	224.0	223.6
127.5°	240.9	240.9	240.9	241.0	240.9	240.9	240.9	240.8	240.5	239.9	239.4
130°	250.9	250.8	250.8	250.7	250.8	250.8	250.9	250.9	250.6	250.0	249.3
132.5°	260.3	260.3	260.2	260.2	260.2	260.3	260.3	260.4	260.2	259.6	259.1
135°	274.3	274.1	274.0	273.9	274.0	274.1	274.3	274.3	274.1	273.5	273.0
137.5°	287.0	286.8	286.6	286.4	286.6	286.8	287.0	287.1	287.0	286.4	285.8
140°	295.1	294.8	294.5	294.2	294.5	294.8	295.1	295.4	295.2	294.7	294.2
142.5°	302.6	302.4	302.1	301.7	302.1	302.4	302.6	303.0	302.9	302.4	301.9
145°	313.2	313.0	312.7	312.3	312.7	313.0	313.2	313.6	313.5	313.1	312.7
147.5°	322.5	322.2	322.0	321.7	322.0	322.2	322.5	322.7	322.7	322.4	322.0
150°	328.3	328.0	327.7	327.4	327.7	328.0	328.3	328.6	328.6	328.2	327.8
152.5°	333.4	333.0	332.6	332.2	332.6	333.0	333.4	333.8	333.8	333.5	333.1
155°	340.4	340.0	339.5	339.0	339.5	340.0	340.4	340.9	341.0	340.6	340.2
157.5°	346.5	346.1	345.6	345.2	345.6	346.1	346.5	347.0	347.0	346.7	346.3
160°	350.0	349.6	349.2	348.8	349.2	349.6	350.0	350.4	350.4	350.1	349.8
162.5°	353.2	352.7	352.2	351.7	352.2	352.7	353.2	353.8	353.8	353.4	352.9
165°	357.3	356.9	356.5	356.1	356.5	356.9	357.3	357.8	357.8	357.3	356.9
167.5°	360.5	360.0	359.5	358.9	359.5	360.0	360.5	361.0	361.1	360.7	360.3
170°	362.2	361.7	361.2	360.6	361.2	361.7	362.2	362.7	362.8	362.4	362.0
172.5°	363.5	363.0	362.4	361.9	362.4	363.0	363.5	364.0	364.0	363.6	363.2
175°	364.8	364.2	363.5	363.0	363.5	364.2	364.8	365.3	365.4	365.0	364.6
177.5°	364.9	364.5	364.1	363.7	364.1	364.5	364.9	365.3	365.4	365.1	364.8
180°	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3



TEST NUMBER: P331705-930

CATALOG NUMBER: SA2XXRDIP-C865D330U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1497.1	1503.2	1512.3	1517.5	1526.2	1531.8	1534.8	1540.4	1543.4	1554.3	1565.5
5°	1413.5	1422.2	1437.3	1451.4	1466.6	1482.2	1493.5	1506.6	1518.5	1539.0	1560.6
7.5°	1317.7	1329.7	1353.2	1375.6	1401.9	1424.2	1443.7	1465.9	1485.7	1515.2	1545.8
10°	1245.9	1266.9	1297.8	1318.8	1353.5	1375.7	1406.5	1430.9	1458.4	1497.4	1532.0
12.5°	1184.0	1209.3	1234.1	1263.5	1294.6	1331.5	1365.4	1396.6	1429.5	1469.7	1510.3
15°	1071.6	1108.4	1146.8	1176.6	1218.8	1257.8	1297.2	1339.4	1379.4	1427.6	1480.6
17.5°	927.1	969.7	1034.3	1085.2	1134.8	1173.9	1222.8	1273.8	1321.0	1379.1	1438.1
20°	861.8	893.2	936.9	1005.7	1080.3	1121.9	1171.7	1228.0	1282.1	1345.3	1408.7
22.5°	809.3	837.3	872.5	926.0	1009.3	1066.1	1118.0	1175.2	1238.0	1302.5	1372.7
25°	734.6	754.1	790.8	834.1	891.5	985.0	1041.9	1099.2	1167.4	1236.6	1316.7
27.5°	678.5	696.0	719.9	761.2	803.9	871.1	961.4	1023.9	1091.8	1169.8	1252.9
30°	635.6	656.2	682.7	711.9	758.4	810.9	901.2	973.7	1040.8	1120.9	1209.6
32.5°	604.5	620.7	643.3	672.9	711.7	762.0	834.1	922.2	987.6	1072.0	1164.6
35°	553.4	572.3	590.8	618.9	650.2	696.2	750.8	845.0	909.9	993.2	1086.2
37.5°	511.3	522.9	543.2	565.5	598.6	632.9	680.3	764.7	834.9	916.7	1011.9
40°	479.3	493.9	509.1	533.9	561.0	593.9	640.5	703.3	783.8	863.9	956.9
42.5°	448.2	466.6	482.7	499.3	529.0	562.0	599.8	653.1	735.4	811.1	901.6
45°	410.6	422.5	439.3	457.6	482.0	510.1	543.6	590.2	669.2	734.6	819.5
47.5°	366.9	384.3	395.3	413.2	436.3	463.2	494.3	534.6	598.5	659.8	738.7
50°	337.0	354.9	370.6	386.8	407.3	433.3	459.3	498.2	549.6	614.0	687.5
52.5°	311.4	327.2	342.4	358.7	378.8	402.6	427.2	461.5	505.5	564.7	636.1
55°	276.5	286.2	301.8	318.0	335.9	358.7	382.5	411.2	449.0	498.8	556.7
57.5°	240.5	251.8	264.2	280.5	298.6	316.0	337.5	363.4	393.3	438.3	487.9
60°	220.1	228.9	239.1	255.8	272.6	288.3	308.9	330.5	358.7	397.6	439.8
62.5°	197.6	205.9	215.3	229.9	246.2	260.7	278.6	301.5	325.3	360.9	397.8
65°	160.1	172.0	181.2	194.2	207.7	222.9	236.9	255.4	276.5	304.6	337.5
67.5°	132.7	138.8	147.3	159.1	173.0	186.0	199.3	213.7	232.0	253.7	279.9
70°	120.7	122.8	124.4	135.7	148.8	161.8	174.1	187.7	203.4	221.3	243.9
72.5°	106.3	108.5	110.6	115.4	125.8	138.8	151.6	161.8	176.6	191.4	209.8
75°	84.4	87.6	89.3	92.0	95.7	104.4	116.3	126.0	134.7	146.0	160.7
77.5°	64.2	66.1	67.8	70.7	73.1	77.0	83.7	92.5	100.6	107.2	117.2
80°	50.9	51.4	53.6	54.6	57.9	60.6	63.8	70.8	79.0	81.7	88.7
82.5°	38.3	38.8	40.6	41.7	43.1	45.4	49.6	51.4	57.8	61.3	65.8
85°	21.1	20.5	22.2	22.2	23.2	24.4	25.4	28.1	29.8	34.1	35.1
87.5°	7.6	7.6	7.9	7.8	7.7	8.5	8.8	9.1	9.9	11.0	12.6
90°	5.5	5.3	4.8	4.3	3.8	3.4	2.9	2.2	1.5	0.9	0.2
92.5°	6.3	6.1	5.9	5.6	5.4	5.2	5.1	5.1	5.2	5.3	5.3
95°	10.6	10.3	9.9	9.5	9.0	8.6	9.4	11.3	13.3	15.2	17.1
97.5°	14.0	13.8	12.8	11.8	10.9	9.9	12.2	17.7	23.1	28.5	34.0
100°	15.5	15.0	14.0	13.0	12.1	11.0	14.6	22.6	30.6	38.6	46.6
102.5°	16.1	15.4	23.8	32.1	40.4	48.8	53.8	55.5	57.2	58.9	60.6
105°	16.7	16.1	32.0	48.1	64.1	80.1	87.2	85.4	83.6	81.9	80.1
107.5°	21.9	22.5	41.7	60.9	80.1	99.2	108.1	106.7	105.3	103.9	102.4
110°	40.3	46.1	63.0	80.0	96.9	113.8	121.7	120.5	119.3	118.0	116.8



TEST NUMBER: P331705-930

CATALOG NUMBER: SA2XXRDIP-C865D330U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	95.0	116.3	120.5	124.7	128.9	133.1	134.6	133.5	132.5	131.3	130.3
115°	135.5	162.7	161.2	159.7	158.2	156.8	155.6	154.6	153.6	152.5	151.6
117.5°	173.6	180.2	179.1	178.1	177.2	176.1	175.0	174.0	172.8	171.7	170.6
120°	194.0	193.2	192.2	191.1	190.0	189.0	188.0	187.2	186.3	185.4	184.5
122.5°	206.1	205.7	204.6	203.3	202.2	201.1	200.1	199.1	198.2	197.3	196.3
125°	223.1	222.7	221.6	220.5	219.4	218.3	217.4	216.6	215.8	215.1	214.3
127.5°	238.7	238.1	237.3	236.5	235.6	234.8	234.0	233.2	232.3	231.5	230.6
130°	248.7	248.1	247.4	246.8	246.1	245.5	244.7	243.8	242.8	241.9	240.9
132.5°	258.5	258.0	257.3	256.7	256.0	255.4	254.7	253.9	253.1	252.3	251.5
135°	272.4	271.8	271.3	270.8	270.2	269.7	269.0	268.0	267.1	266.1	265.2
137.5°	285.3	284.7	284.1	283.5	282.9	282.3	281.7	281.0	280.4	279.7	279.1
140°	293.7	293.1	292.5	291.9	291.2	290.6	290.0	289.5	289.0	288.6	288.1
142.5°	301.4	300.9	300.2	299.5	298.7	298.0	297.4	297.0	296.5	296.1	295.7
145°	312.3	311.9	310.9	309.9	308.8	307.9	307.4	307.4	307.5	307.6	307.6
147.5°	321.7	321.5	320.5	319.5	318.5	317.5	317.2	317.3	317.6	317.8	318.0
150°	327.5	327.2	326.2	325.3	324.3	323.4	323.1	323.5	323.9	324.3	324.7
152.5°	332.7	332.4	331.5	330.6	329.7	328.8	328.6	329.1	329.5	330.0	330.4
155°	339.9	339.5	338.8	338.1	337.5	336.7	336.6	337.1	337.7	338.2	338.8
157.5°	345.8	345.4	345.0	344.5	344.0	343.5	343.4	343.9	344.3	344.8	345.2
160°	349.4	349.0	348.7	348.3	348.0	347.6	347.6	348.0	348.3	348.7	349.0
162.5°	352.6	352.2	351.9	351.6	351.2	351.0	351.0	351.3	351.7	352.0	352.4
165°	356.5	356.1	356.0	355.8	355.6	355.5	355.6	355.9	356.2	356.6	356.9
167.5°	359.9	359.5	359.3	359.1	359.0	358.8	358.9	359.2	359.6	360.0	360.3
170°	361.6	361.2	361.0	360.9	360.8	360.7	360.8	361.2	361.5	361.8	362.2
172.5°	362.8	362.4	362.3	362.2	362.1	361.9	362.1	362.4	362.7	363.1	363.5
175°	364.2	363.8	363.7	363.5	363.5	363.3	363.5	363.9	364.3	364.7	365.1
177.5°	364.4	364.1	364.0	364.0	363.9	363.9	364.0	364.4	364.7	365.0	365.3
180°	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3



TEST NUMBER: P331705-930

CATALOG NUMBER: SA2XXRDIP-C865D330U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1565.9	1567.2	1575.9	1579.8	1587.6	1590.6	1594.1	1593.3	1593.3	1595.0	1607.1
5°	1569.3	1580.1	1596.4	1612.1	1627.2	1640.2	1648.9	1657.5	1660.8	1676.4	1690.5
7.5°	1563.7	1583.6	1610.5	1634.3	1663.0	1685.4	1704.1	1720.8	1732.3	1755.1	1778.5
10°	1556.3	1584.5	1614.8	1645.6	1685.1	1714.8	1745.1	1768.4	1776.0	1810.0	1829.5
12.5°	1541.6	1579.2	1617.8	1657.7	1696.3	1737.3	1770.7	1793.9	1820.6	1851.1	1887.1
15°	1519.6	1562.8	1613.2	1664.5	1719.7	1769.4	1805.2	1845.8	1874.9	1908.5	1939.8
17.5°	1487.8	1543.6	1607.5	1667.0	1730.9	1784.3	1833.4	1872.3	1892.9	1912.0	1916.7
20°	1462.7	1522.8	1598.0	1668.3	1732.2	1793.8	1842.5	1874.9	1880.4	1880.9	1852.3
22.5°	1435.5	1503.3	1582.0	1654.0	1730.4	1799.0	1836.9	1850.7	1829.3	1792.6	1737.2
25°	1385.4	1463.9	1555.3	1637.4	1720.8	1785.7	1798.7	1774.3	1699.2	1620.2	1520.1
27.5°	1331.1	1419.3	1517.3	1608.7	1697.5	1737.6	1709.7	1621.9	1486.5	1368.7	1226.0
30°	1291.3	1390.2	1486.5	1588.8	1671.0	1688.3	1624.0	1494.7	1336.7	1159.3	1017.0
32.5°	1245.9	1349.6	1455.4	1561.1	1629.9	1613.0	1506.7	1347.5	1162.3	987.9	853.5
35°	1180.9	1288.0	1402.2	1508.2	1552.0	1479.0	1320.0	1112.7	923.4	760.6	668.1
37.5°	1106.0	1222.5	1341.2	1438.6	1435.5	1313.8	1097.1	883.3	724.1	627.9	562.0
40°	1052.7	1170.6	1298.9	1381.0	1345.9	1187.4	952.6	750.8	634.5	557.7	509.6
42.5°	1001.7	1120.0	1247.3	1312.7	1251.6	1056.7	822.8	664.7	568.8	508.8	469.8
45°	914.8	1039.8	1157.6	1193.9	1084.6	869.8	665.4	550.7	486.9	442.5	415.5
47.5°	829.8	952.8	1060.4	1061.0	913.2	705.4	561.3	476.6	422.1	387.8	368.1
50°	777.9	894.7	985.0	971.0	803.3	627.5	502.0	429.0	383.5	357.0	336.5
52.5°	719.5	832.8	911.1	871.1	710.3	552.2	448.7	387.4	349.8	326.8	308.3
55°	634.5	735.2	790.4	729.8	579.4	459.3	379.2	331.1	303.0	283.5	267.7
57.5°	551.1	634.1	668.9	598.3	477.2	380.8	320.8	284.6	256.7	242.8	234.6
60°	498.8	569.6	593.9	516.1	414.9	333.2	284.0	250.5	229.9	220.7	212.6
62.5°	447.3	505.2	515.2	443.8	361.7	291.7	249.4	221.0	207.4	198.6	190.9
65°	371.1	412.8	407.9	350.6	286.2	231.5	200.7	183.4	173.1	160.7	147.2
67.5°	305.5	330.9	315.6	272.6	218.4	179.9	159.8	146.7	134.0	122.1	119.0
70°	264.0	278.6	262.4	222.9	179.0	150.9	134.7	119.0	111.5	108.8	103.9
72.5°	224.2	229.3	211.7	177.9	145.7	125.0	109.2	100.4	96.3	94.0	90.9
75°	168.3	164.4	149.3	122.8	101.2	87.1	82.3	79.0	76.3	74.1	72.5
77.5°	118.1	112.6	99.1	81.8	70.4	63.8	60.8	59.1	57.8	56.7	55.0
80°	88.7	85.0	71.4	58.5	53.6	50.3	48.7	46.6	46.6	45.4	43.8
82.5°	64.9	60.7	48.9	42.8	40.1	38.2	37.0	35.7	35.3	35.5	34.3
85°	34.1	27.6	24.4	23.2	21.6	20.5	21.1	20.0	20.0	20.0	19.5
87.5°	10.6	8.6	8.2	7.9	8.5	8.6	8.2	8.3	8.8	8.5	9.0
90°	0.9	1.5	2.2	2.9	3.4	3.8	4.3	4.8	5.3	5.5	5.9
92.5°	5.3	5.2	5.1	5.1	5.2	5.4	5.6	5.9	6.1	6.3	6.4
95°	15.2	13.3	11.3	9.4	8.6	9.0	9.5	9.9	10.3	10.6	10.8
97.5°	28.5	23.1	17.7	12.2	9.9	10.9	11.8	12.8	13.8	14.0	14.3
100°	38.6	30.6	22.6	14.6	11.0	12.1	13.0	14.0	15.0	15.5	16.0
102.5°	58.9	57.2	55.5	53.8	48.8	40.4	32.1	23.8	15.4	16.1	16.6
105°	81.9	83.6	85.4	87.2	80.1	64.1	48.1	32.0	16.1	16.7	17.4
107.5°	103.9	105.3	106.7	108.1	99.2	80.1	60.9	41.7	22.5	21.9	21.2
110°	118.0	119.3	120.5	121.7	113.8	96.9	80.0	63.0	46.1	40.3	34.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	131.3	132.5	133.5	134.6	133.1	128.9	124.7	120.5	116.3	95.0	73.6
115°	152.5	153.6	154.6	155.6	156.8	158.2	159.7	161.2	162.7	135.5	108.4
117.5°	171.7	172.8	174.0	175.0	176.1	177.2	178.1	179.1	180.2	173.6	167.1
120°	185.4	186.3	187.2	188.0	189.0	190.0	191.1	192.2	193.2	194.0	194.6
122.5°	197.3	198.2	199.1	200.1	201.1	202.2	203.3	204.6	205.7	206.1	206.5
125°	215.1	215.8	216.6	217.4	218.3	219.4	220.5	221.6	222.7	223.1	223.6
127.5°	231.5	232.3	233.2	234.0	234.8	235.6	236.5	237.3	238.1	238.7	239.4
130°	241.9	242.8	243.8	244.7	245.5	246.1	246.8	247.4	248.1	248.7	249.3
132.5°	252.3	253.1	253.9	254.7	255.4	256.0	256.7	257.3	258.0	258.5	259.1
135°	266.1	267.1	268.0	269.0	269.7	270.2	270.8	271.3	271.8	272.4	273.0
137.5°	279.7	280.4	281.0	281.7	282.3	282.9	283.5	284.1	284.7	285.3	285.8
140°	288.6	289.0	289.5	290.0	290.6	291.2	291.9	292.5	293.1	293.7	294.2
142.5°	296.1	296.5	297.0	297.4	298.0	298.7	299.5	300.2	300.9	301.4	301.9
145°	307.6	307.5	307.4	307.4	307.9	308.8	309.9	310.9	311.9	312.3	312.7
147.5°	317.8	317.6	317.3	317.2	317.5	318.5	319.5	320.5	321.5	321.7	322.0
150°	324.3	323.9	323.5	323.1	323.4	324.3	325.3	326.2	327.2	327.5	327.8
152.5°	330.0	329.5	329.1	328.6	328.8	329.7	330.6	331.5	332.4	332.7	333.1
155°	338.2	337.7	337.1	336.6	336.7	337.5	338.1	338.8	339.5	339.9	340.2
157.5°	344.8	344.3	343.9	343.4	343.5	344.0	344.5	345.0	345.4	345.8	346.3
160°	348.7	348.3	348.0	347.6	347.6	348.0	348.3	348.7	349.0	349.4	349.8
162.5°	352.0	351.7	351.3	351.0	351.0	351.2	351.6	351.9	352.2	352.6	352.9
165°	356.6	356.2	355.9	355.6	355.5	355.6	355.8	356.0	356.1	356.5	356.9
167.5°	360.0	359.6	359.2	358.9	358.8	359.0	359.1	359.3	359.5	359.9	360.3
170°	361.8	361.5	361.2	360.8	360.7	360.8	360.9	361.0	361.2	361.6	362.0
172.5°	363.1	362.7	362.4	362.1	361.9	362.1	362.2	362.3	362.4	362.8	363.2
175°	364.7	364.3	363.9	363.5	363.3	363.5	363.5	363.7	363.8	364.2	364.6
177.5°	365.0	364.7	364.4	364.0	363.9	363.9	364.0	364.0	364.1	364.4	364.8
180°	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3	364.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1611.4	1617.1	1619.6	1619.6	1622.7	1621.4	1620.1
5°	1704.1	1714.3	1716.4	1726.2	1733.2	1731.0	1732.2
7.5°	1796.1	1812.7	1829.0	1836.5	1837.6	1841.9	1843.6
10°	1852.8	1866.3	1891.7	1887.9	1906.9	1917.7	1899.8
12.5°	1907.3	1925.6	1943.3	1948.1	1958.8	1962.3	1955.3
15°	1956.6	1966.4	1967.5	1964.8	1968.0	1965.3	1955.0
17.5°	1910.6	1894.8	1862.7	1847.5	1835.6	1817.9	1810.7
20°	1834.4	1787.9	1733.7	1712.1	1686.7	1637.0	1648.9
22.5°	1670.0	1616.9	1562.8	1499.7	1469.5	1422.3	1419.4
25°	1414.1	1322.7	1222.1	1151.7	1110.6	1063.6	1042.9
27.5°	1099.4	984.3	901.9	860.1	822.1	784.8	783.3
30°	892.6	806.0	742.2	706.5	683.2	667.6	670.8
32.5°	752.4	693.1	650.0	620.4	603.2	591.3	591.2
35°	615.1	574.5	546.9	534.4	522.0	513.4	513.9
37.5°	526.4	502.0	486.7	472.9	465.1	460.9	458.5
40°	480.9	460.9	449.0	440.9	434.4	428.4	427.4
42.5°	445.0	428.4	416.5	410.2	404.1	399.9	398.8
45°	394.9	381.4	370.6	363.5	360.9	357.0	357.0
47.5°	351.3	338.0	329.5	325.1	320.5	318.0	317.9
50°	321.9	311.6	304.0	301.3	297.5	295.9	295.4
52.5°	295.5	287.8	282.4	280.5	278.9	276.9	277.2
55°	259.7	255.4	253.2	251.5	248.8	245.6	247.8
57.5°	229.5	225.8	220.0	214.8	212.4	210.1	211.0
60°	208.3	200.7	193.1	187.2	185.6	180.7	180.7
62.5°	181.4	170.8	161.5	158.2	156.5	154.3	153.8
65°	139.6	135.3	133.1	130.9	129.8	129.8	128.7
67.5°	115.7	113.9	111.5	111.0	109.9	109.6	109.3
70°	102.2	100.0	99.0	98.5	97.3	97.9	96.3
72.5°	89.3	87.6	87.3	85.9	85.3	85.4	84.1
75°	70.4	70.4	69.8	69.2	68.2	67.6	68.2
77.5°	54.1	54.2	53.2	53.2	53.0	53.2	52.6
80°	43.3	43.8	43.3	42.7	42.2	42.7	42.2
82.5°	34.2	33.4	33.3	33.2	33.1	32.8	32.7
85°	19.5	20.0	19.5	18.9	18.9	18.9	19.5
87.5°	8.6	8.6	8.7	8.7	8.7	8.7	8.3
90°	6.1	6.4	6.7	6.8	6.8	7.0	7.1
92.5°	6.6	6.7	6.8	6.9	7.0	7.0	7.1
95°	11.2	11.4	11.6	11.5	11.4	11.4	11.3
97.5°	14.4	14.7	14.8	14.9	15.0	15.1	15.2
100°	16.5	16.9	17.2	17.3	17.4	17.5	17.7
102.5°	17.3	17.9	18.3	18.4	18.6	18.8	18.9
105°	18.0	18.7	19.1	19.3	19.6	19.8	20.1
107.5°	20.5	19.9	19.6	19.9	20.1	20.4	20.6
110°	28.5	22.7	19.9	20.1	20.4	20.6	20.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	52.3	30.9	20.3	20.5	20.6	20.9	21.0
115°	81.3	54.1	38.5	34.2	30.1	25.8	21.6
117.5°	160.5	153.9	143.7	129.9	116.0	102.2	88.3
120°	195.3	196.0	192.4	184.5	176.6	168.7	160.8
122.5°	206.9	207.3	206.8	205.3	203.7	202.2	200.6
125°	224.0	224.4	224.7	224.9	225.0	225.2	225.3
127.5°	239.9	240.5	240.8	240.9	240.9	240.9	241.0
130°	250.0	250.6	250.9	250.9	250.8	250.8	250.7
132.5°	259.6	260.2	260.4	260.3	260.3	260.2	260.2
135°	273.5	274.1	274.3	274.3	274.1	274.0	273.9
137.5°	286.4	287.0	287.1	287.0	286.8	286.6	286.4
140°	294.7	295.2	295.4	295.1	294.8	294.5	294.2
142.5°	302.4	302.9	303.0	302.6	302.4	302.1	301.7
145°	313.1	313.5	313.6	313.2	313.0	312.7	312.3
147.5°	322.4	322.7	322.7	322.5	322.2	322.0	321.7
150°	328.2	328.6	328.6	328.3	328.0	327.7	327.4
152.5°	333.5	333.8	333.8	333.4	333.0	332.6	332.2
155°	340.6	341.0	340.9	340.4	340.0	339.5	339.0
157.5°	346.7	347.0	347.0	346.5	346.1	345.6	345.2
160°	350.1	350.4	350.4	350.0	349.6	349.2	348.8
162.5°	353.4	353.8	353.8	353.2	352.7	352.2	351.7
165°	357.3	357.8	357.8	357.3	356.9	356.5	356.1
167.5°	360.7	361.1	361.0	360.5	360.0	359.5	358.9
170°	362.4	362.8	362.7	362.2	361.7	361.2	360.6
172.5°	363.6	364.0	364.0	363.5	363.0	362.4	361.9
175°	365.0	365.4	365.3	364.8	364.2	363.5	363.0
177.5°	365.1	365.4	365.3	364.9	364.5	364.1	363.7
180°	364.3	364.3	364.3	364.3	364.3	364.3	364.3

(END OF REPORT)